

**UEC response****Wren Stenger** to: Stacey Dwyer, Philip Dellinger, Ray Leissner

08/31/2012 02:26 PM

From: Wren Stenger/R6/USEPA/US
To: "Stacey Dwyer" <dwyer.stacey@epa.gov>, Philip Dellinger/R6/USEPA/US@EPA, Ray Leissner/R6/USEPA/US@EPA

----- Forwarded by Wren Stenger/R6/USEPA/US on 08/31/2012 02:25 PM -----

From: "craig w. holmes" <pommelhouse@sbcglobal.net>
To: Wren Stenger/R6/USEPA/US@EPA
Date: 08/31/2012 01:55 PM
Subject: Re: Recently Sent Documents

Wren,

Most welcome. Thanks for the additional clarification on the raw input for the mean gradients. That will help me tie it down to exactly what you would like to have. Please stand by and I hope to have it to you this afternoon. Have a good Labor Day weekend.

craig w. holmes

--- On **Fri, 8/31/12**, **Wren Stenger** <*Stenger.Wren@epamail.epa.gov*> wrote:

From: Wren Stenger <Stenger.Wren@epamail.epa.gov>
Subject: Re: Recently Sent Documents
To: "craig w. holmes" <pommelhouse@sbcglobal.net>
Cc: "Stacey Dwyer" <Dwyer.Stacey@epamail.epa.gov>
Date: Friday, August 31, 2012, 12:16 PM

Hello Craig,

Stacey and her technical folks are out until Tuesday, and thanks for your help in finding the specific information.

For the gradients, we are specifically interested in the raw data the UEC used to calculate the mean gradients included in the table you sent previously. Here is that table.

Hope this helps identify what we need to see. Thanks

From: "craig w. holmes" <pommelhouse@sbcglobal.net>
To: Stacey Dwyer/R6/USEPA/US@EPA
Cc: Wren Stenger/R6/USEPA/US@EPA
Date: 08/31/2012 11:33 AM
Subject: Recently Sent Documents

Stacey,

In talking with Harry yesterday he indicated that Sam wanted UEC to send two pieces of information to you and Wren. The two pieces of information are: (1) derivation of gradients and (2) where to find Sand A (OMW wells) Pump Test tables in Appendix D. The quickest and easiest way to do this is for me to attach the documents that I sent to Sam, Ray, you, etc. on August 17.

The attached tables (see D1 and D2 file) are taken from Appendix D, which was sent previously. D1 and D2 show all 9 OMW (Sand A Wells) that were part of the PA-1 Pump Test and hydrology assessment. The hydrology assessment is also attached (see PAA-1). I made red highlights of the pertinent material in PAA-1). You can find the Sand A Tables (OMWs) in Appendix D -- the tables appear very much at the end of the 498 page document. Just go to the end of Appendix D and scroll up 4 or 5 pages and you will see the OMW results. Also attached is the Pump Test Readers Guide that we provided on August 17. The guide is just a short and concise summary of where to find pertinent information regarding the pump test and its conclusions.

With regard to gradients, UEC relied on detailed measurements used in two pump tests (the Northwest Fault Test and the PAA-1 Test), a calibrated model, various other water level measurements, literature, calculations, etc. I will send you a more precise account of the derivation of the gradients in a follow up email shortly.

Well, I hope this packet of information is helpful. It should not take you very much time to go through it.

Lastly, if you or Wren would like to have a conference call to discuss any questions you might have I would be pleased to help out. UEC appreciates your attention on the project. Thanks.

craig w. holmes

***** ATTACHMENT NOT DELIVERED *****

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[EPA, EPA Docs.zip]
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